

**METHODS AND APPARATUS FOR ESTIMATING
MOISTURE ABSORPTION BY HYGROSCOPIC MATERIALS**

ABSTRACT

Disclosed are methods and apparatus to measure specific mass increases (due to the absorption of moisture) that occur in materials and for predicting moisture absorption in materials. In one method, pre-dried plastic encapsulated microchip packages (PEMs) are exposed to moist air over a period of time and moisture absorption is determined over a period of time resulting in prediction of moisture absorption of a particular material and determination of methods of care and storage of material to prevent excessive moisture absorption.

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